

Name: KEY

Id#

ICS 103, Term 092

Computer Programming in C

Quiz# 5

Date: Tuesday, May 23, 2010

Q1. Find the output of each of the following programs:

Program	Output		
<p>(i) (5 points)</p> <pre>#include &lt;stdio.h&gt; int main() { int j, k ; int b[3][3]={1,2,3,4,5,6,7,8,9}; for (k=0;k&lt;3;k=k+2) {     for (j=2;j&gt;=0;j--)         printf("%d\t",b[j][k]);     printf("\n"); }  return 0; }</pre>	7 9	4 6	1 3

<p><b>(ii)</b> <span style="float: right;"><b>(5 points)</b></span></p> <pre> #include &lt;stdio.h&gt; #include &lt;string.h&gt; int mystrcmp(char s1[], char s2[]) {     return strlen(s1)-strlen(s2); } int main() { int i; char text[3][10]={"AB","CDE","F"}; for(i=0;i&lt;2;i++) {     if(mystrcmp(text[i],text[i+1])&gt;0)         strcat(text[i],text[i+1]);     else if(mystrcmp(text[i],text[i+1])&lt;0)         strcat(text[i+1],text[i]);     else         strcpy(text[i+1],text[i]);  puts(text[i]); } return 0; } </pre>	<p><b>AB</b> <b>CDEABF</b></p>
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**Q2. Write a function that receives a two-dimensional array of integers, the number of columns and two row numbers i and j. The function exchanges the two rows i and j. (5 points)**

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void swapr(int x[][MAXC], int nc, int i, int j){
    int t;
    for (int k=0; k<nc; k++){
        t = x[i][k];
        x[i][k]=x[j][k];
        x[j][k]=t;
    }
}

```